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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/650,881	08/28/2003	Ta-Chang Fu	HSJ920030132US2	8734
48583	7590	07/18/2005	EXAMINER	
BRACEWELL & PATTERSON, LLP			KIM, PAUL D	
PO BOX 61389			ART UNIT	
HOUSTON, TX 77208-1389			PAPER NUMBER	
			3729	
DATE MAILED: 07/18/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/650,881

Applicant(s)

FU ET AL.

Examiner

Paul D. Kim

Art Unit

3729

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 August 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

## **DETAILED ACTION**

### ***Specification***

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: --A METHOD OF BALANCING A DISK PACK IN A HARD DISK DRIVE--.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Applicant Admitted Prior Art (APA).

APA teaches a process of balancing a disk pack in a hard disk drive comprising steps of: providing the hard disk drive with a motor hub (11), a balance clip holder (15) in the motor hub, and a balance clip (13) seated in the balance clip holder as shown in Fig. 1; providing a bent tab (17) on one end of the balance clip to facilitate the disk pack balancing process; offsetting an opposite end (19) of the balance clip relative to a body of the balance clip as shown in Fig. 5; and slidably moving the balance clip relative to the balance clip holder to adjustably balance the motor hub for smooth rotation during

the disk pack balance process as shown in Figs. 1 and 5 (see also Specification, Paragraphs [6] and [7] of pages 2 and 3).

As per claim 4 an offset bend (19) of the balance clip is located immediately adjacent to the opposite end of the body as shown in Fig. 5.

4. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Wood et al. (US PAT. 5,555,144).

Wood et al. teach a process of balancing a disk assembly for a disk drive comprising steps of: providing the hard disk drive with a motor hub (12) as shown in Fig. 1, a balance clip holder (26) in the motor hub as shown in Fig. 3, and a balance clip (34) seated in the balance clip holder as shown in Fig. 4; providing a bent tab (62) on one end of the balance clip to facilitate the disk pack balancing process; offsetting an opposite end (62, the other side) of the balance clip relative to a body of the balance clip as shown in Fig. 5; and slidably moving the balance clip relative to the balance clip holder to adjustably balance the motor hub for smooth rotation during the disk pack balance process as shown in Figs. 6 and 7 (see also col. 5, line 17 to col. 8, line 22).

As per claims 2, 3, 7 and 8 the opposite end of the balance clip at a radius is less than a radius of the body of the balance clip or a pre-determined lesser radial distance with respect to the body of the balance clip.

As per claims 4 and 6 an offset bend (62) of the balance clip is located immediately adjacent to the opposite end of the body as shown in Fig. 5.

As per claims 5 and 6 the opposite end of the balance clip is free of contact with an outer diameter wall (52) of the balance clip holder as shown in Fig. 6.

U.S. Patent

Sep. 10, 1996

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5,555,144

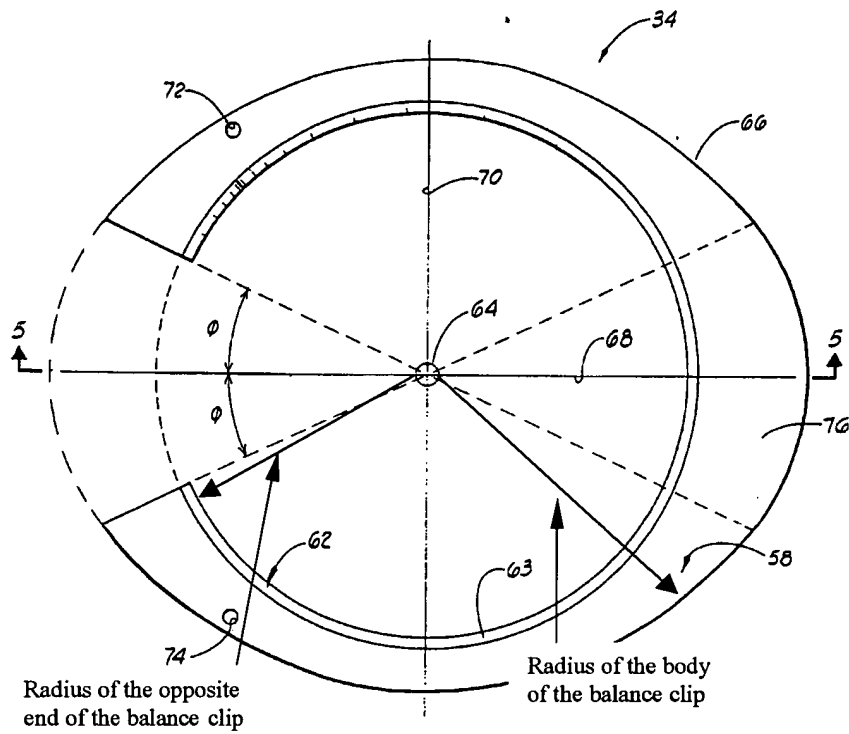


FIG. 4

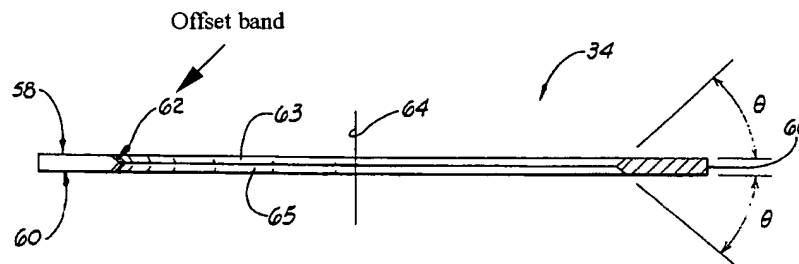



FIG. 5

***Conclusion***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul D. Kim whose telephone number is 571-272-4565. The examiner can normally be reached on Monday-Friday between 7:00 AM to 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Paul D Kim  
Examiner  
Art Unit 3729